

## WHAT IS CLAIMED IS:

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1 A radio communication system for a vehicle comprising:  
2 a radio communication apparatus mounted on at least one helmet to be worn  
3 by a passenger of said vehicle and including at least a speaker, a microphone and a  
4 radio wave transmitter-receiver; and  
5 a repeating apparatus mounted on said vehicle side for communicating with  
6 said radio wave transmitter-receiver;  
7 said radio communication apparatus mounted on said helmet communicating  
8 with a second helmet through said repeating apparatus.

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1 2. The radio communication system for a vehicle according to claim 1,  
2 wherein said repeating apparatus repeats mutual communication between two radio  
3 communication apparatus mounted on each of the two helmets worn by passengers of  
4 said vehicle and a radio communication apparatus mounted on a third helmet worn by  
5 a person other than the passengers of said vehicle.

1 3. The radio communication system for a vehicle according to claim 1,  
2 wherein said radio wave transmitter-receiver is removably mounted at the center of a  
3 rear portion of each helmet through a removable fixing member.

1 4. The radio communication system for a vehicle according to claim 2,  
2 wherein said radio wave transmitter-receiver is removably mounted at the center of a  
3 rear portion of each helmet through a removable fixing member.

9. The radio communication system for a vehicle according to claim 4,  
wherein said sound signal generation apparatus is at least one of a navigation system,  
a portable telephone set, a music reproduction apparatus, some other radio apparatus  
and a sound board.

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1 10. The radio communication system for a vehicle according to claim 5,  
2 wherein said sound signal generation apparatus is at least one of a navigation system,  
3 a portable telephone set, a music reproduction apparatus, some other radio apparatus  
4 and a sound board.

1 11. The radio communication system for a vehicle according to claim 1,  
2 wherein said radio wave transmitter-receiver has an antenna for radio communication  
3 built therein.

1 12. The radio communication system for a vehicle according to claim 1,  
2 wherein said radio wave transmitter-receiver has at least a circuit board and a battery  
3 built therein, and said circuit board and a battery accommodation section are disposed  
4 in such a manner as to be distributed to the left and the right when said radio wave  
5 transmitter-receiver is mounted in a predetermined posture at the center of the rear  
6 portion of each helmet.

1 13. The radio communication system for a vehicle according to claim 8,  
2 wherein the size of said battery accommodation section corresponds to the magnitude  
3 of a cell of a size of a AAA battery and is equivalent to that of said circuit board.

1 14. The radio communication system for a vehicle according to claim 1,  
2 wherein said radio wave transmitter-receiver includes an operation button disposed on  
3 a rear face thereof when said radio wave transmitter-receiver is mounted in a  
4 predetermined posture at the center of the rear portion of each helmet.

1 15. The radio communication system for a vehicle according to claim 6,  
2 wherein a display apparatus of said navigation system is supported for movement  
3 between a use position and an accommodation position.

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